

FIG. 1

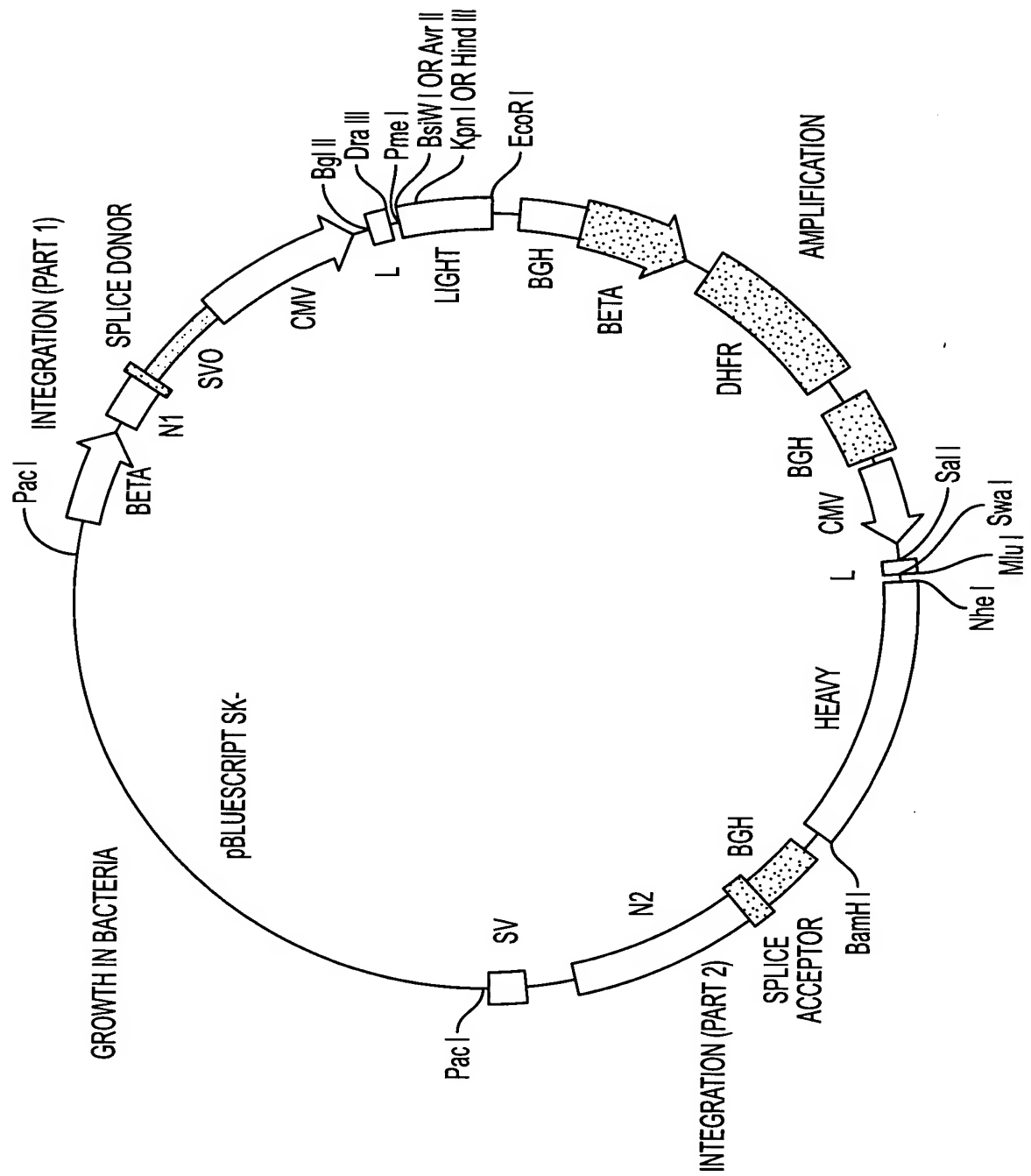


FIG. 2

Frame 1 M R V P A Q L L G L L L L W L P G A R  
 ATG AGG GTC CCC GCT CAG CTC CTG GGG CTC CTG CTC TGG CTC CCA GGT GCA CGA  
 9 18 27 36 45 54  
 C A Y E L T Q P P S V S V S P G Q T A R I  
 TGT GCC TAT GAA CTG ACT CAG CCA CCC TCG GTG TCA GTG TCC CCA GGA CAG ACG GCC AGG ATC  
 63 72 81 90 99 108 117  
 T C G G D N S R N E Y V H W Y Q Q K P A R  
 ACC TGT GGG GGA GAC AAC AGT AGA AAT GAA TAT GTC CAC TGG TAC CAG CAG AAG CCA GCG CGG  
 126 135 144 153 162 171 180  
 A P I L V I Y D D S D R P S G I P E R F S  
 GCC CCT ATA CTG GTC ATC TAT GAT GAT AGT GAC CGG CCC TCA GGG ATC CCT GAG CGA TTC TCT  
 189 198 207 216 225 234 243  
 G S K S G N T A T L T I N G V E A G D E A  
 GGC TCC AAA TCA GGG AAC ACC GCC ACC CTG ACC ATC AAC GGG GTC GAG GCC GGG GAT GAG GCT  
 252 261 270 279 288 297 306  
 D Y Y C Q V W D R A S D H P V F G G G T R  
 GAC TAT TAC TGT CAG GTG TGG GAC AGG GCT AGT GAT CAT CCG GTC TTC GGA GGA GGG ACC CGG  
 315 324 333 342 351 360 369  
 V T V L G Q P K A A P S V T L F P P S S E  
 GTG ACC GTC CTA GGT CAG CCC AAG GCT GCC CCC TCG GTC ACT CTG TTC CCG CCC TCC TCT GAG  
 378 387 396 405 414 423 432  
 E L Q A N K A T L V C L I S D F Y P G A V  
 GAG CTT CAA GCC AAC AAG GCC ACA CTG GTG TGT CTC ATA AGT GAC TTC TAC CCG GGA GCC GTG  
 441 450 459 468 477 486 495  
 T V A W K A D S S P V K A G V E T T T P S  
 ACA GTG GCC TGG AAG GCA GAT AGC AGC CCC GTC AAG GCG GGA GTG GAG ACC ACC ACA CCC TCC  
 504 513 522 531 540 549 558  
 K Q S N N K Y A A S S Y L S L T P E Q W K  
 AAA CAA AGC AAC AAC AAG TAC GCG GCC AGC AGC TAC CTG AGC CTG ACG CCT GAG CAG TGG AAG  
 567 576 585 594 603 612 621  
 S H R S Y S C Q V T H E G S T V E K T V A  
 TCC CAC AGA AGC TAC AGC TGC CAG GTC ACG CAT GAA GGG AGC ACC GTG GAG AAG ACA GTG GCC  
 630 639 648 657 666 675 684  
 P T E C S  
 CCT ACA GAA TGT TCA TGA  
 693 702

FIG. 3A

Frame 1	M	K	H	L	W	F	F	L	L	L	V	A	A	P	R	W	V	L	S
	ATG	AAA	CAC	CTG	TGG	TTC	TTC	CTC	CTC	CTG	GTG	GCA	GCT	CCC	AGA	TGG	GTC	CTG	TCC
			9			18			27			36			45			54	
Q	V	K	L	Q	Q	W	G	E	G	L	L	Q	P	S	E	T	L	S	R
CAG	GTG	AAG	CTG	CAG	CAG	TGG	GGC	GAA	GGA	CTT	CTG	CAG	CCT	TCG	GAG	ACC	CTG	TCC	CGC
	63			72			81			90			99			108			117
C	V	V	S	G	G	S	I	S	G	Y	Y	Y	W	T	W	I	R	Q	T
TGC	GTT	GTC	TCT	GGT	GGC	TCC	ATC	AGC	GGT	TAC	TAC	TAC	TGG	ACC	TGG	ATC	CGC	CAG	ACC
	126			135			144			153			162			171			180
G	R	G	L	E	W	I	G	H	I	Y	G	N	G	A	T	T	N	Y	N
GGG	AGG	GGA	CTG	GAG	TGG	ATT	GGC	CAT	ATT	TAT	GGT	AAT	GGT	ACG	ACC	ACC	AAC	TAC	AAT
	189			198			207			216			225			234			243
S	L	K	S	R	V	T	I	S	K	D	T	S	K	N	Q	F	F	L	N
TCC	CTC	AAG	AGT	CGA	GTC	ACC	ATT	TCA	AAA	GAC	ACG	TCC	AAG	AAC	CAG	TTC	TTC	CTG	AAC
	252			261			270			279			288			297			306
N	S	V	T	D	A	D	T	A	V	Y	Y	C	A	R	G	P	R	P	D
AAT	TCT	GTG	ACC	GAC	GCG	GAC	ACG	GCC	GTC	TAT	TAC	TGT	GCG	AGA	GGC	CCT	CGC	CCT	GAT
	315			324			333			342			351			360			369
T	T	I	C	Y	G	G	W	V	D	V	W	G	P	G	D	L	V	T	V
ACA	ACC	ATT	TGT	TAT	GGC	GGC	TGG	GTC	GAT	GTC	TGG	GGC	CCG	GGA	GAC	CTG	GTC	ACC	GTC
	378			387			396			405			414			423			432
S	A	S	T	K	G	P	S	V	F	P	L	A	P	S	S	K	S	T	S
TCA	GCT	AGC	ACC	AAG	GGC	CCA	TCG	GTC	TTC	CCC	CTG	GCA	CCC	TCC	TCC	AAG	AGC	ACC	TCT
	441			450			459			468			477			486			495
G	T	A	A	L	G	C	L	V	K	D	Y	F	P	E	P	V	T	V	S
GGC	ACA	GCG	GCC	CTG	GGC	TGC	CTG	GTC	AAG	GAC	TAC	TTC	CCC	GAA	CCG	GTG	ACG	GTG	TCG
	504			513			522			531			540			549			558
N	S	G	A	L	T	S	G	V	H	T	F	P	A	V	L	Q	S	S	G
AAC	TCA	GGC	GCC	CTG	ACC	AGC	GGC	GTG	CAC	ACC	TTC	CCG	GCT	GTC	CTA	CAG	TCC	TCA	GGA
	567			576			585			594			603			612			621
Y	S	L	S	S	V	V	T	V	P	S	S	S	L	G	T	Q	T	Y	I
TAC	TCC	CTC	AGC	AGC	GTG	GTG	ACC	GTG	CCC	TCC	AGC	AGC	TTC	GGC	ACC	CAG	ACC	TAC	ATC
	630			639			648			657			666			675			684
N	V	N	H	K	P	S	N	T	K	V	D	K	K	A	E	P	K	S	C
AAC	GTG	AAT	CAC	AAG	CCC	AGC	AAC	ACC	AAG	GTG	GAC	AAG	AAA	GCA	GAG	CCC	AAA	TCT	TGT
	693			702			711			720			729			738			747
K	T	H	T	C	P	P	C	P	A	P	E	L	L	G	G	P	S	V	F
AAA	ACT	CAC	ACA	TGC	CCA	CCG	TGC	CCA	GCA	CCT	GAA	CTC	CTG	GGG	GGA	CCG	TCA	GTC	TTC
	756			765			774			783			792			801			810
F	P	P	K	P	K	D	T	L	M	I	S	R	T	P	E	V	T	C	V
TTC	CCC	CCA	AAA	CCC	AAG	GAC	ACC	CTC	ATG	ATC	TCC	CGG	ACC	CCT	GAG	GTC	ACA	TGC	GTG
	819			828			837			846			855			864			873
V	D	V	S	H	E	D	P	E	V	K	F	N	W	Y	V	D	G	V	E
GTG	GAC	GTG	AGC	CAC	GAA	GAC	CCT	GAG	GTC	AAG	TTC	AAC	TGG	TAC	GTG	GAC	GGC	GTG	GAG
	882			891			900			909			918			927			936

FIG. 3B

H CAT 945	N AAT 945	A GCC 945	K AAG 954	T ACA 954	K AAG 963	P CCG 963	R CGG 972	E GAG 972	E GAG 972	O CAG 972	Y TAC 981	N AAC 981	S AGC 981	T ACG 990	Y TAC 990	R CGT 990	V GTG 999	V GTC 999	S AGC 999	V GTC 999
L CTC 1008	T ACC 1008	V GTC 1017	L CTG 1017	H CAC 1017	O CAG 1026	D GAC 1026	W TGG 1026	L CTG 1035	N AAT 1035	G GGC 1044	K AAG 1044	E GAG 1044	Y TAC 1053	K AAG 1053	C TGC 1053	K AAG 1053	V GTC 1062	S TCC 1062	N AAC 1062	K AAA 1062
A GCC 1071	L CTC 1071	P CCA 1080	A GCC 1080	P CCC 1080	I ATC 1089	E GAG 1089	K AAA 1089	T ACC 1098	I ATC 1098	S TCC 1098	K AAA 1107	A GCC 1107	K AAA 1107	G GGG 1116	O CAG 1116	P CCC 1116	R CGA 1125	E GAA 1125	P CCA 1125	O CAG 1125
V GTG 1134	Y TAC 1134	T ACC 1143	L CTG 1143	P CCC 1143	P CCA 1152	S TCC 1152	R CGG 1152	D GAT 1161	E GAG 1161	L CTG 1161	T ACC 1170	K AAG 1170	N AAC 1170	O CAG 1179	V GTC 1179	S AGC 1179	L CTG 1188	T ACC 1188	C TGC 1188	L CTG 1188
V GTC 1197	K AAA 1197	G GGC 1206	F TTC 1206	Y TAT 1206	P CCC 1215	S AGC 1215	D GAC 1215	I ATC 1224	A GCC 1224	V GTG 1224	E GAG 1233	W TGG 1233	E GAG 1233	S AGC 1242	N AAT 1242	G GGG 1242	O CAG 1251	P CCG 1251	E GAG 1251	N AAC 1251
N AAC 1260	Y TAC 1260	K AAG 1269	T ACC 1269	T ACG 1269	P CCT 1278	P CCC 1278	V GTG 1278	L CTG 1287	D GAC 1287	S TCC 1287	D GAC 1296	G GGC 1296	S TCC 1296	F TTC 1305	F TTC 1305	L CTC 1305	Y TAC 1314	S AGC 1314	K AAG 1314	L CTC 1314
T ACC 1323	V GTG 1323	D GAC 1332	K AAG 1332	S AGC 1332	R AGG 1341	W TGG 1341	O CAG 1341	O CAG 1350	G GGG 1350	N AAC 1350	V GTC 1359	F TTC 1359	S TCA 1359	C TGC 1368	S TCC 1368	V GTG 1368	M ATG 1377	H CAT 1377	E GAG 1377	A GCT 1377
L CTG 1386	H CAC 1386	N AAC 1395	H CAC 1395	Y TAC 1395	T ACG 1404	O CAG 1404	K AAG 1404	S AGC 1413	L CTC 1413	S TCC 1413	L CTG 1422	S TCT 1422	P CCG 1422	G GGT 1431	K AAA 1431	TGA				

FIG. 3C

Frame 1 M S L P A Q L L G L L L L C V P G S S  
 ATG AGC CTC CCT GCT CAG CTC CTC GGG CTG CTA TTG CTC TGC GTC CCC GGG TCC AGT  
 9 18 27 36 45 54  
 G E V V M T Q S P L S L P I T P G E P A S  
 GGG GAA GTT GTG ATG ACT CAG TCT CCA CTG TCC CTT CCC ATC ACA CCT GGA GAG CCG GCC TCC  
 63 72 81 90 99 108 117  
 I S C R S S Q S L K H S N G D T F L S W Y  
 ATC TCC TGT AGG TCT AGT CAA AGC CTT AAA CAC AGT AAT GGA GAC ACC TTC CTG AGT TGG TAT  
 126 135 144 153 162 171 180  
 Q Q K P G Q P P R L L I Y K V S N R D S G  
 CAG CAG AAG CCA GGC CAA CCT CCA AGG CTC CTG ATT TAT AAG GTT TCT AAC CGG GAC TCT GGG  
 189 198 207 216 225 234 243  
 V P D R F S G S G A G T D F T L K I S A V  
 GTC CCA GAC AGA TTC AGC GGC AGT GGG GCA GGG ACA GAT TTC ACA CTG AAA ATC AGC GCA GTG  
 252 261 270 279 288 297 306  
 E A E D V G V Y F C G Q G T R T P P T F G  
 GAG GCT GAA GAT GTT GGG GTT TAT TTC TGC GGG CAA GGT TACA AGG ACT CCT CCC ACT TTC GGC  
 315 324 333 342 351 360 369  
 G G T K V E I K R T V A A P S V F I F P P  
 GGA GGG ACC AAG GTG GAA ATC AAA CGT ACG GTG GCT GCA CCA TCT GTC TTC ATC TTC CCG CCA  
 378 387 396 405 414 423 432  
 S D E Q L K S G T A S V V C L L N N F Y P  
 TCT GAT GAG CAG TTG AAA TCT GGA TCT ACT GCC TCT GTT GTG TGC CTG CTG AAT AAC TTC TAT CCC  
 441 450 459 468 477 486 495  
 R E A K V Q W K V D N A L Q S G N S Q E S  
 AGA GAG GCC AAA GTA CAG TGG AAG GTG GAT AAC GCC CTC CAA TCG GGT AAC TCC CAG GAG AGT  
 504 513 522 531 540 549 558  
 V T E Q D S K D S T Y S L S S T L T L S K  
 GTC ACA GAG CAG GAC AGC AAG GAC AGC ACC TAC AGC CTC AGC AGC ACC CTG ACG CTG AGC AAA  
 567 576 585 594 603 612 621  
 A D Y E K H K V Y A C E V T H Q G L S S P  
 GCA GAC TAC GAG AAA CAC AAA GTC TAC GCC TGC GAA GTC ACC CAT CAG GGC CTG AGC TCG CCC  
 630 639 648 657 666 675 684  
 V T K S F N R G E C  
 GTC ACA AAG AGC TTC AAC AGG GGA GAG TGT TGA  
 693 702 711 720

FIG. 4A

Frame 1 M G W S L I L L F L V A V A T R V Q C  
 ATG GGT TGG AGC CTC ATC TTG CTC TTC CTT GTC GCT GTT GCT ACG CGT GTC CAG TGT  
 9 18 27 36 45 54

E V Q L V E S G G G L V Q P G G S L R V S  
 GAG GTG CAA CTG GTG GAG TCT GGG GGA GGC TTG GTC CAG CCT GGC GGG TCC CTG AGA GTC TCC  
 63 72 81 90 99 108 117

C A V S G F T F S D H Y M Y W F R Q A P G  
 TGT GCA GTC TCT GGA TTC ACC TTC AGT GAC CAC TAC ATG TAT TGG TTC CGC CAG GCT CCA GGG  
 126 135 144 153 162 171 180

K G P E W V G F I R N K P N G G T T E Y A  
 AAG GGG CCG GAA TGG GTA GGT TTC ATT AGA AAC AAA CCG AAC GGT GGG ACA ACA GAA TAC GCC  
 189 198 207 216 225 234 243

A S V K D R F T I S R D D S K S I A Y L Q  
 GCG TCT GTG AAA GAC AGA TTC ACC ATC TCC AGA GAT GAT TCC AAA AGC ATC GCC TAT CTG CAA  
 252 261 270 279 288 297 306

M S S L K I E D T A V Y Y C T T S Y I S H  
 ATG AGC AGC CTG AAA ATC GAG GAC ACG GCC GTC TAT TAC TGT ACT ACA TCC TAC ATT TCA CAT  
 315 324 333 342 351 360 369

C R G G V C Y G G Y F E F W G Q G A L V T  
 TGT CGG GGT GGT GTC TGC TAT GGA GGT TAC TTC GAA TTC TGG GGC CAG GGC GCC CTG GTC ACC  
 378 387 396 405 414 423 432

V S S A S T K G P S V F P L A P S S K S T  
 GTC TCC TCA GCT AGC ACC AAG GGC CCA TCG GTC TTC CCC CTG GCA CCC TCC TCC AAG AGC ACC  
 441 450 459 468 477 486 495

S G G T A A L G C L V K D Y F P E P V T V  
 TCT GGG GGC ACA GCG GCC CTG GGC TGC CTG GTC AAG GAC TAC TTC CCC GAA CCG GTG ACG GTG  
 504 513 522 531 540 549 558

S W N S G A L T S G V H T F P A V L Q S S  
 TCG TGG AAC TCA GCG GCC CTG ACC AGC GGC GTG CAC ACC TTC CCG GCT GTC CTA CAG TCC TCA  
 567 576 585 594 603 612 621

G L Y S L S S V V T V P S S S L G T Q T Y  
 GGA CTC TAC TCC CTC AGC AGC GTG GTG ACC GTG CCC TCC AGC AGC TTG GGC ACC CAG T ACC TAC  
 630 639 648 657 666 675 684

I C N V N H K P S N T K V D K K A E P K S  
 ATC TGC AAC GTG AAT CAC AAG CCC AGC AAC ACC AAG GTG GAC AAG AAA GCA GAG CCC AAA TCT  
 693 702 711 720 729 738 747

C D K T H T C P P C P A P E L L G G P S V  
 TGT GAC AAA ACT CAC ACA TGC CCA CCG TGC CCA GCA CCT GAA CTC CTG GGG GGA CCG TCA GTC  
 756 765 774 783 792 801 810

F L F P P K P K D T L M I S R T P E V T C  
 TTC CTC TTC CCC CCA AAA CCC AAG GAC ACC CTC ATG ATC TCC CGG ACC CCT GAG GTC ACA TGC  
 819 828 837 846 855 864 873

V V V D V S H E D P E V K F N W Y V D G V  
 GTG GTG GTG GAC GTG AGC CAC GAA GAC CCT GAG GTC AAG TTC AAC TGG TAC GTG GAC GGC GTG  
 882 891 900 909 918 927 936

FIG. 4B

E GAG 945	V GTG 945	H CAT 945	N AAT 945	A GCC 945	K AAG 945	T ACA 945	K AAG 945	P CCG 945	R CGG 945	E GAG 945	E GAG 945	O CAG 945	Y TAC 945	N AAC 945	S AGC 945	T ACG 945	Y TAC 945	R CGT 945	V GTG 945	V GTC 945
S AGC 1008	V GTC 1008	L CTC 1008	T ACC 1008	V GTC 1008	L CTG 1008	H CAC 1008	O CAG 1008	D GAC 1008	W TGG 1008	L CTG 1008	N AAT 1008	G GGC 1008	K AAG 1008	E GAG 1008	Y TAC 1008	K AAG 1008	C TGC 1008	K AAG 1008	V GTC 1008	S TCC 1008
N AAC 1071	K AAA 1071	A GCC 1071	L CTC 1071	P CCA 1071	A GCC 1071	P CCC 1071	I ATC 1071	E GAG 1071	K AAA 1071	T ACC 1071	I ATC 1071	S TCC 1071	K AAA 1071	A GCC 1071	K AAA 1071	G GGG 1071	O CAG 1071	P CCC 1071	R CGA 1071	E GAA 1071
P CCA 1134	O CAG 1134	V GTG 1134	Y TAC 1134	T ACC 1134	L CTG 1134	P CCC 1134	P CCA 1134	S TCC 1134	R CGG 1134	D GAT 1134	E GAG 1134	L CTG 1134	T ACC 1134	K AAG 1134	N AAC 1134	O CAG 1134	V GTC 1134	S AGC 1134	L CTG 1134	T ACC 1134
C TGC 1197	L CTG 1197	V GTC 1197	K AAA 1197	G GGC 1197	F TTC 1197	Y TAT 1197	P CCC 1197	S AGC 1197	D GAC 1197	I ATC 1197	A GCC 1197	V GTG 1197	E GAG 1197	W TGG 1197	E GAG 1197	S AGC 1197	N AAT 1197	G GGG 1197	O CAG 1197	P CCG 1197
E GAG 1260	N AAC 1260	N AAC 1260	Y TAC 1260	K AAG 1260	T ACC 1260	T ACG 1260	P CCT 1260	P CCC 1260	V GTG 1260	L CTG 1260	D GAC 1260	S TCC 1260	D GAC 1260	G GGC 1260	S TCC 1260	F TTC 1260	F TTC 1260	L CTC 1260	Y TAC 1260	S AGC 1260
K AAG 1323	L CTC 1323	T ACC 1323	V GTG 1323	D GAC 1323	K AAG 1323	S AGC 1323	R AGG 1323	W TGG 1323	O CAG 1323	O CAG 1323	G GGG 1323	N AAC 1323	V GTC 1323	F TTC 1323	S TCA 1323	C TGC 1323	S TCC 1323	V GTG 1323	M ATG 1323	H CAT 1323
E GAG 1386	A GCT 1386	L CTG 1386	H CAC 1386	N AAC 1386	H CAC 1386	Y TAC 1386	T ACG 1386	O CAG 1386	K AAG 1386	S AGC 1386	L CTC 1386	S TCC 1386	L CTG 1386	S TCT 1386	P CCG 1386	G GGT 1386	K AAA 1386	TGA 1386		

FIG. 4C



Frame 1	M	R	V	P	A	O	L	L	G	L	L	L	L	W	L	P	G	A	R	
	ATG	AGG	GTC	CCC	GCT	CAG	CTC	CTG	GGG	CTC	CTG	CTG	CTC	TGG	CTC	CCA	GGT	GCA	CGA	
			9			18			27			36			45			54		
C	E	S	V	L	T	O	P	P	S	V	S	G	A	P	G	O	K	V	T	I
TGT	GAG	TCT	GTC	CTG	ACA	CAG	CCG	CCC	TCA	GTG	TCT	GGG	GCC	CCA	GGG	CAG	AAG	GTC	ACC	ATC
	63			72			81			90			99			108			117	
S	C	T	G	S	T	S	N	I	G	G	Y	D	L	H	W	Y	O	O	L	P
TCG	TGC	ACT	GGG	AGC	ACC	TCC	AAC	ATT	GGA	GGT	TAT	GAT	CTA	CAT	TGG	TAC	CAG	CAG	CTC	CCA
	126			135			144			153			162			171			180	
G	T	A	P	K	L	L	I	Y	D	I	N	K	R	P	S	G	I	S	D	R
GGA	ACG	GCC	CCC	AAA	CTC	CTC	ATC	TAT	GAC	ATT	AAC	AAG	CGA	CCC	TCA	GGA	ATT	TCT	GAC	CGA
	189			198			207			216			225			234			243	
F	S	G	S	K	S	G	T	A	A	S	L	A	I	T	G	L	O	T	E	D
TTC	TCT	GGC	TCC	AAG	TCT	GGT	ACC	GCG	GCC	TCC	CTG	GCC	ATC	ACT	GGG	CTC	CAG	ACT	GAG	GAT
	252			261			270			279			288			297			306	
E	A	D	Y	Y	C	O	S	Y	D	S	S	L	N	A	O	V	F	G	G	G
GAG	GCT	GAT	TAT	TAC	TGC	CAG	TCC	TAT	GAC	AGC	AGC	CTG	AAT	GCT	CAG	GTA	TTC	GGA	GGA	GGG
	315			324			333			342			351			360			369	
T	R	L	T	V	L	G	O	P	K	A	A	P	S	V	T	L	F	P	P	S
ACC	CGG	CTG	ACC	GTC	CTA	GGT	CAG	CCC	AAG	GCT	GCC	CCC	TGC	GTC	ACT	CTG	TTC	CCG	CCC	TCC
	378			387			396			405			414			423			432	
S	E	E	L	O	A	N	K	A	T	L	V	C	L	I	S	D	F	Y	F	G
TCT	GAG	GAG	CTT	CAA	GCC	AAC	AAG	GCC	ACA	CTG	GTG	TGT	CTC	ATA	AGT	GAC	TTC	TAC	CCG	GGA
	441			450			459			468			477			486			495	
A	V	T	V	A	W	K	A	D	S	S	P	V	K	A	G	V	E	T	T	T
GCC	GTG	ACA	GTG	GCC	TGG	AAG	GCA	GAT	AGC	AGC	CCC	GTC	AAG	GCG	GGA	GTG	GAG	ACC	ACC	ACA
	504			513			522			531			540			549			558	
P	S	K	O	S	N	N	K	Y	A	A	S	S	Y	L	S	L	T	P	E	O
CCC	TCC	AAA	CAA	AGC	AAC	AAC	AAG	TAC	GCG	GCC	AGC	AGC	TAC	CTG	AGC	CTG	ACG	CCT	GAG	CAG
	567			576			585			594			603			612			621	
W	K	S	H	R	S	Y	S	C	O	V	T	H	E	G	S	T	V	E	K	T
TGG	AAG	TCC	CAC	AGA	AGC	TAC	AGC	TGC	CAG	GTC	ACG	CAT	GAA	GGG	AGC	ACC	GTG	GAG	AAG	ACA
	630			639			648			657			666			675			684	
V	A	P	T	E	C	S														
GTG	GCC	CCT	ACA	GAA	TGT	TCA	TGA													
	693			702			711													

FIG. 5A

Frame 1 M K H L W F F L L L V A A P R W V L S  
 ATG AAA CAC CTG TGG TTC TTC CTC CTC CTG GTG GCA GCT CCC AGA TGG GTC CTG TCC  
 9 18 27 36 45 54  
 O V O L O E S G P G L V K P S E T L S L T  
 CAG GTG CAG CTG CAG GAG TCG GGC CCA GGA CTG GTG AAG CCT TCG GAG ACC CTG TCC CTC ACC  
 63 72 81 90 99 108 117  
 C A V S G G S I S G G Y G W G W I R O P P  
 TGC GCT GTC TCT GGT GGC TCC ATC AGC GGT GGT TAT GGC TGG GGC TGG ATC CGC CAG CCC CCA  
 126 135 144 153 162 171 180  
 G K G L E W I G S F Y S S S G N T Y Y N P  
 GGG AAG GGG CTG GAG TGG ATT GGG AGT TTC TAT AGT AGT AGT GGG AAC ACC TAC TAC AAC CCC  
 189 198 207 216 225 234 243  
 S L K S O V T I S T D T S K N O F S L K L  
 TCC CTC AAG AGT CAA GTC ACC ATT TCA ACA GAC TAC TCC AAG AAC CAG TTC TCC CTG AAG CTG  
 252 261 270 279 288 297 306  
 N S M T A A D T A V Y Y C V R D R L F S V  
 AAC TCT ATG ACC GCC GCG GAC ACG GCC GTG TAT TAC TGT GTG AGA GAT CGT CTT TTT TCA GTT  
 315 324 333 342 351 360 369  
 V G M V Y N N W F D V W G P G V L V T V S  
 GTT GGA ATG GTT TAC AAC AAC TGG TTC GAT GTC TGG GGC CCG GGA GTC CTG GTC ACC GTC TCC  
 378 387 396 405 414 423 432  
 S A S T K G P S V F P L A P S S K S T S G  
 TCA GCT AGC ACC AAG GGC CCA TCG GTC TTC CCC CTG GCA CCC TCC AAG AGC ACC TCT GGG  
 441 450 459 468 477 486 495  
 G T A A L G C L V K D Y F P E P V T V S W  
 GGC ACA GCG GCC CTG GGC TGC CTG GTC AAG GAC TAC TTC CCC GAA CCG GTG ACG GTG TCG TGG  
 504 513 522 531 540 549 558  
 N S G A L T S G V H T F P A V L O S S G L  
 AAC TCA GGC GCC CTG ACC AGC GGC GTG CAC ACC TTC CCG GCT GTC CTA CAG TCC TCA GGA CTC  
 567 576 585 594 603 612 621  
 Y S L S S V V T V P S S S L G T O T Y I C  
 TAC TCC CTC AGC AGC GTG GTG ACC GTG CCC TCC AGC AGC TTG GGC ACC CAG ACC TAC ATC TGC  
 630 639 648 657 666 675 684  
 N V N H K P S N T K V D K K A E P K S C D  
 AAC GTG AAT CAC AAG CCC AGC AAC ACC AAG GTG GAC AAG AAA GCA GAG CCC AAA TCT TGT GAC  
 693 702 711 720 729 738 747  
 K T H T C P P C P A P E L L G G P S V F L  
 AAA ACT CAC ACA TGC CCA CCG TGC CCA GCA CCT GAA CTC CTG GGG GGA CCG TCA GTC TTC CTC  
 756 765 774 783 792 801 810  
 F P P K P K D T L M I S R T P E V T C V V  
 TTC CCC CCA AAA CCC AAG GAC ACC CTC ATG ATC TCC CGG ACC CCT GAG GTC ACA TGC GTG GTG  
 819 828 837 846 855 864 873  
 V D V S H E D P E V K F N W Y V D G V E V  
 GTG GAC GTG AGC CAC GAA GAC CCT GAG GTC AAG TTC AAC TGG TAC GTG GAC GGC GTG GAG GTG  
 882 891 900 909 918 927 936

FIG. 5B

H CAT 945	N AAT 945	A GCC 954	K AAG 954	T ACA 963	K AAG 963	P CCG 963	R CGG 963	E GAG 972	E GAG 972	O CAG 972	Y TAC 981	N AAC 981	S AGC 981	T ACG 981	Y TAC 981	R CGT 990	V GTG 990	V GTC 990	S AGC 999	V GTC 999
L CTC 1008	T ACC 1008	V GTC 1017	L CTG 1017	H CAC 1017	O CAG 1026	D GAC 1026	W TGG 1026	L CTG 1035	N AAT 1035	G GGC 1035	K AAG 1044	E GAG 1044	Y TAC 1044	K AAG 1053	C TGC 1053	K AAG 1053	V GTC 1062	S TCC 1062	N AAC 1062	K AAA 1062
A GCC 1071	L CTC 1071	P CCA 1080	A GCC 1080	P CCC 1080	I ATC 1089	E GAG 1089	K AAA 1089	T ACC 1098	I ATC 1098	S TCC 1098	K AAA 1107	A GCC 1107	K AAA 1107	G GGG 1116	O CAG 1116	P CCC 1116	R CGA 1125	E GAA 1125	P CCA 1125	O CAG 1125
V GTG 1134	Y TAC 1134	T ACC 1143	L CTG 1143	P CCC 1143	P CCA 1152	S TCC 1152	R CGG 1152	D GAT 1161	E GAG 1161	L CTG 1161	T ACC 1170	K AAG 1170	N AAC 1170	O CAG 1179	V GTC 1179	S AGC 1179	L CTG 1188	T ACC 1188	C TGC 1188	L CTG 1188
V GTC 1197	K AAA 1197	G GGC 1206	F TTC 1206	Y TAT 1206	P CCC 1215	S AGC 1215	D GAC 1215	I ATC 1224	A GCC 1224	V GTG 1224	E GAG 1233	W TGG 1233	E GAG 1233	S AGC 1242	N AAT 1242	G GGG 1242	O CAG 1251	P CCG 1251	E GAG 1251	N AAC 1251
N AAC 1260	Y TAC 1260	K AAG 1269	T ACC 1269	T ACG 1269	P CCT 1278	P CCC 1278	V GTG 1278	L CTG 1287	D GAC 1287	S TCC 1287	D GAC 1296	G GGC 1296	S TCC 1296	F TTC 1305	F TTC 1305	L CTC 1305	Y TAC 1314	S AGC 1314	K AAG 1314	L CTC 1314
T ACC 1323	V GTG 1323	D GAC 1332	K AAG 1332	S AGC 1332	R AGG 1341	W TGG 1341	O CAG 1341	O CAG 1350	G GGG 1350	N AAC 1350	V GTC 1359	F TTC 1359	S TCA 1359	C TGC 1368	S TCC 1368	V GTG 1368	M ATG 1377	H CAT 1377	E GAG 1377	A GCT 1377
L CTG 1386	H CAC 1386	N AAC 1395	H CAC 1395	Y TAC 1395	T ACG 1404	O CAG 1404	K AAG 1404	S AGC 1413	L CTC 1413	S TCC 1413	L CTG 1422	S TCT 1422	P CCG 1422	G GGT 1431	K AAA 1431	TGA 1431				

FIG. 5C

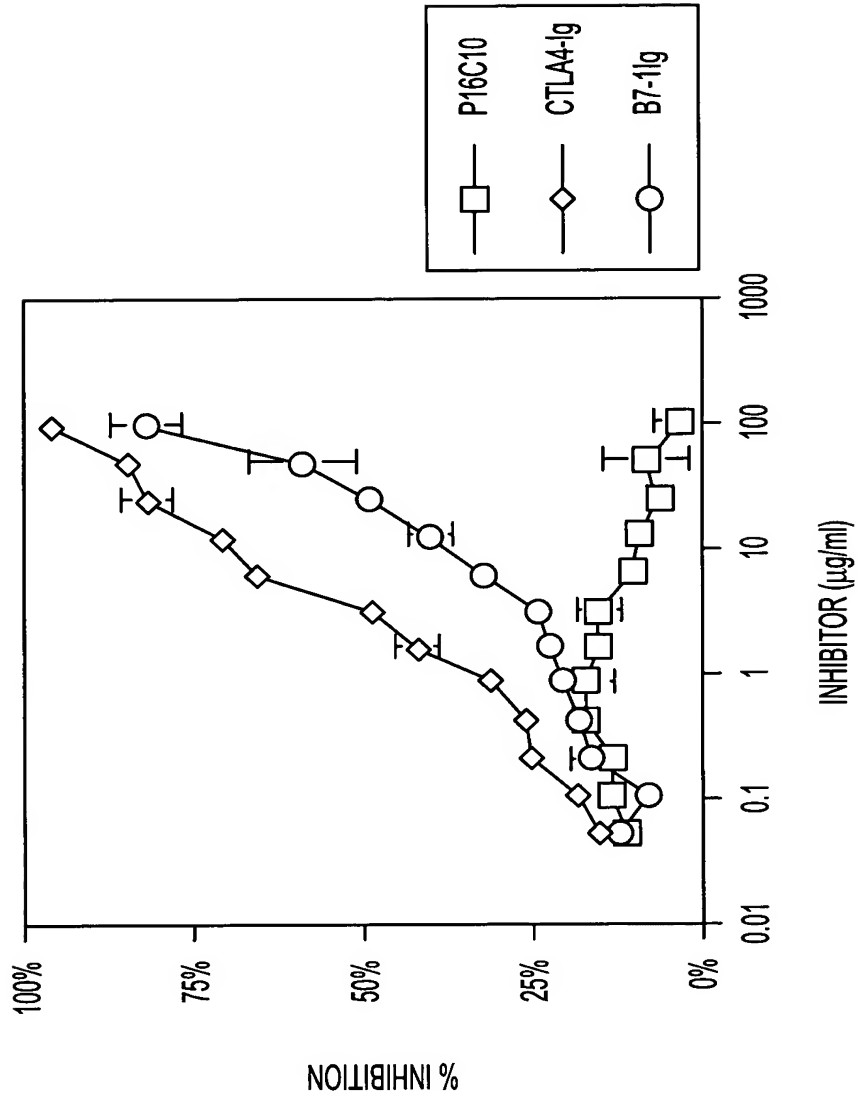


FIG. 6

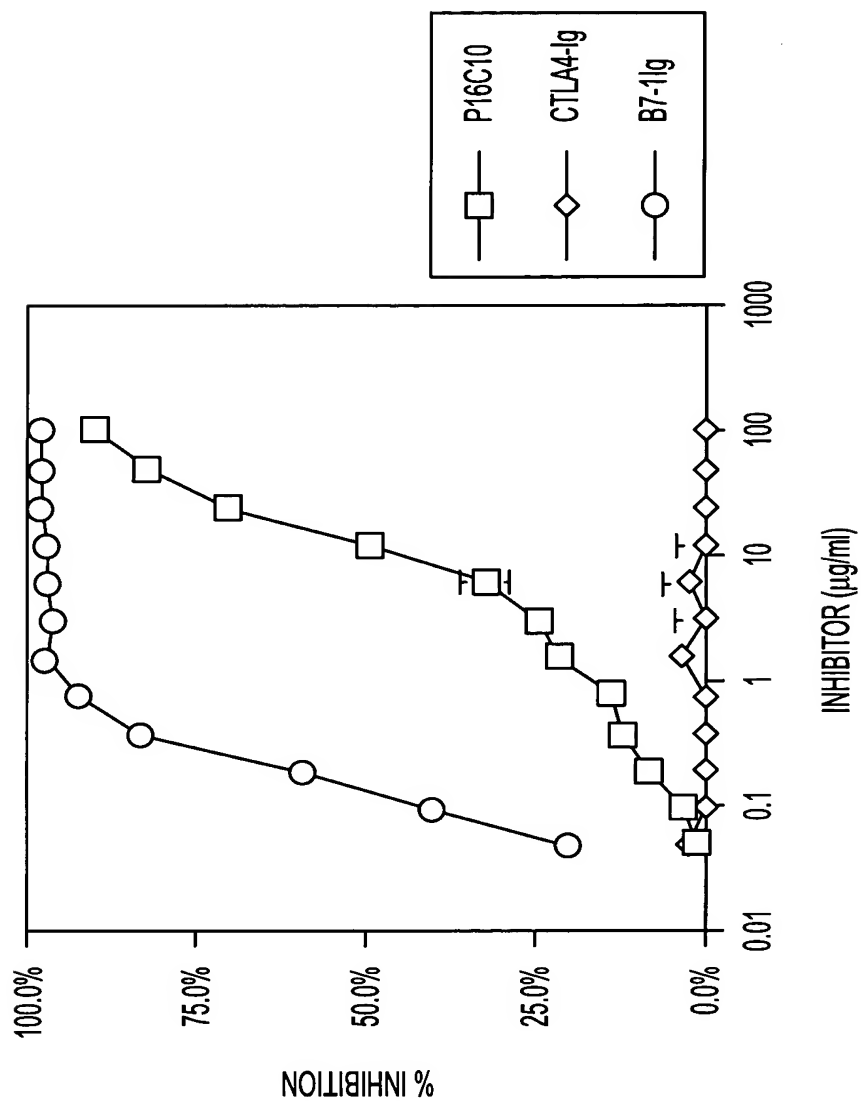


FIG. 7

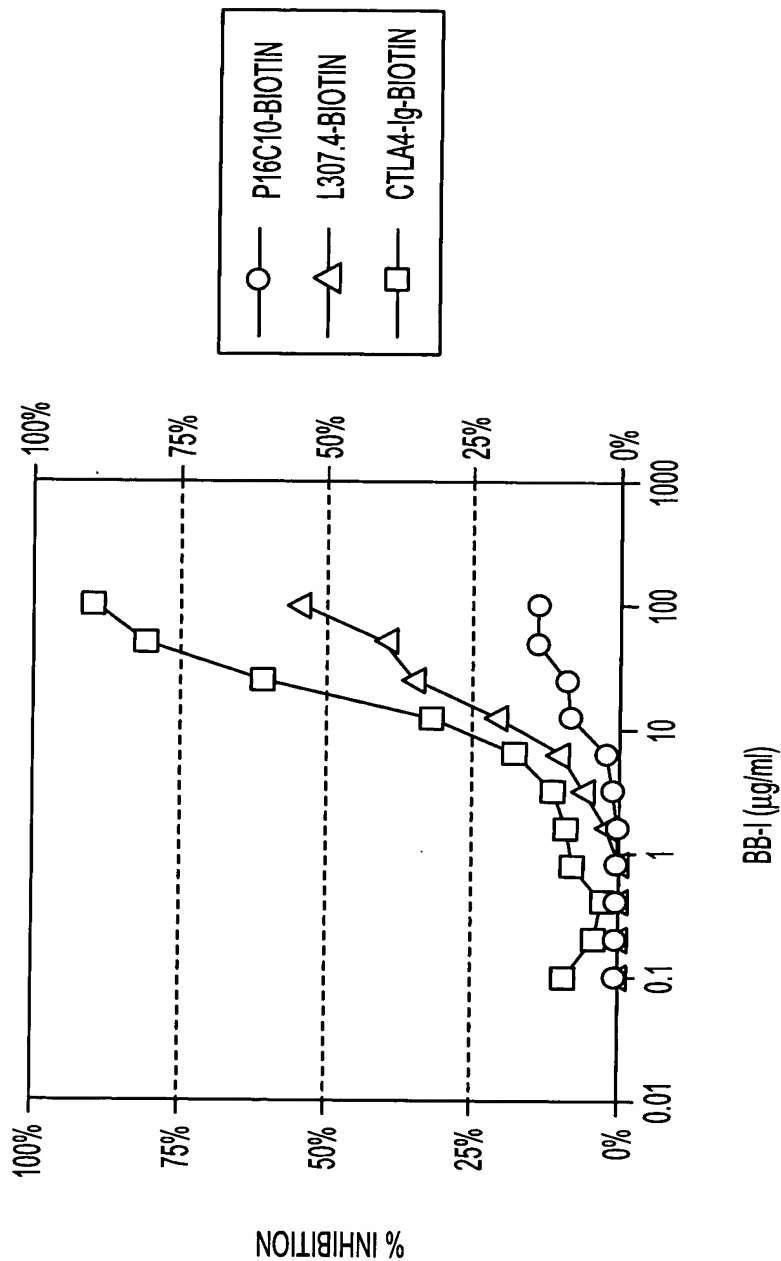


FIG. 8

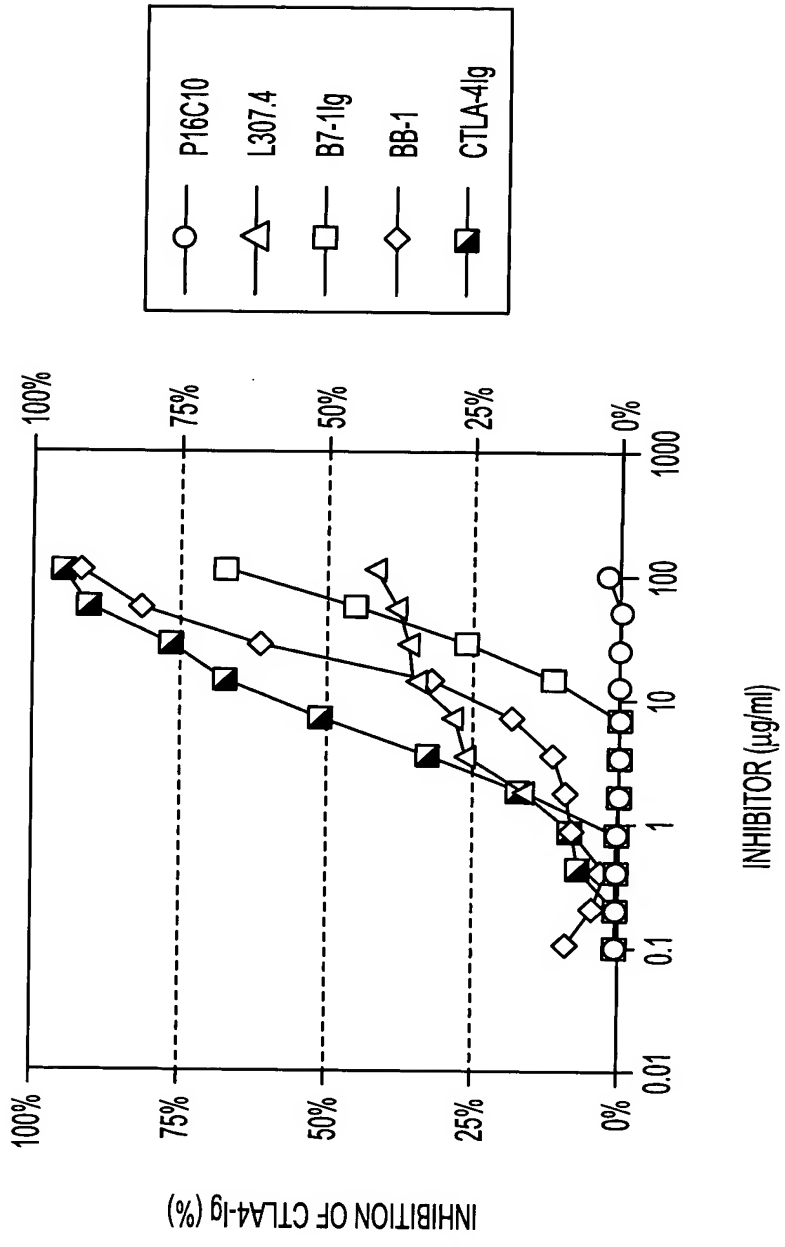


FIG. 9

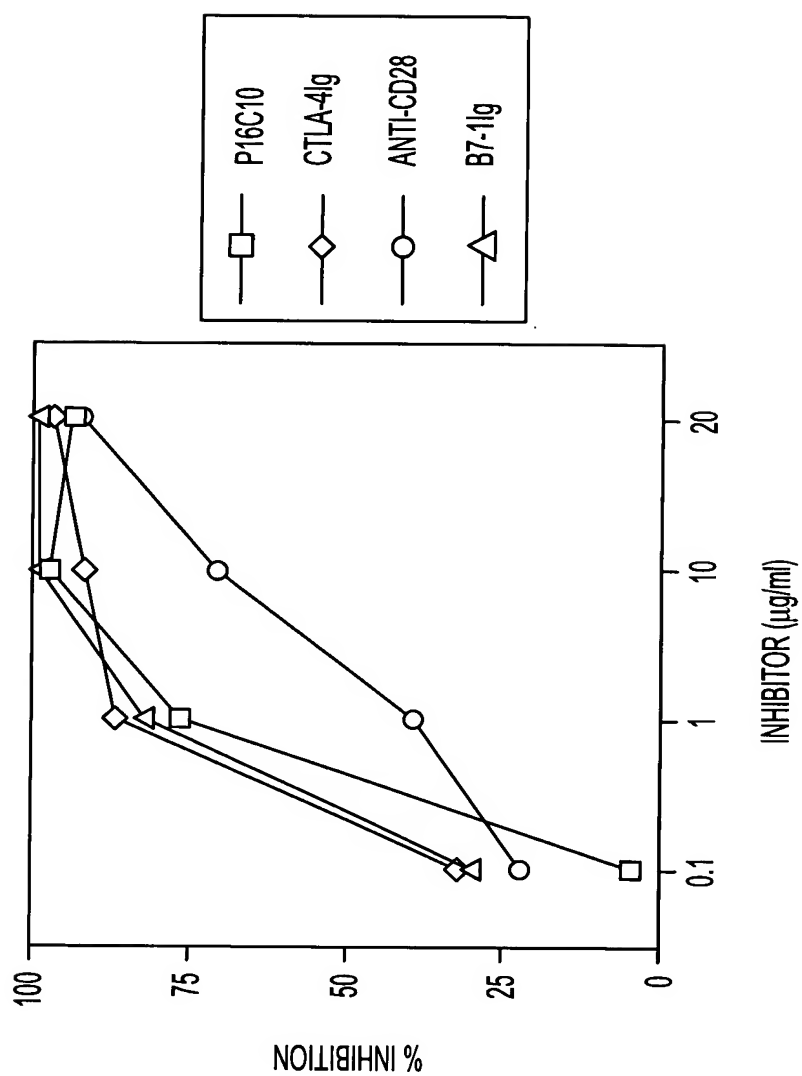


FIG. 10